Defense Information Systems Agency

Defense Information Systems Network Video Services (DVS)

NEWCOMERS INFORMATION

December 2002
Revision 2.6

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1. WHAT IS VTC?

A. Overview

Video Teleconferencing, or VTC, is the means by which two or more rooms containing Video Teleconferencing equipment, acting much like television studios are linked electronically allowing the participants in one room to see and hear the participants in the other room. Technical types define VTC as "an exchange of digitized video images and sounds between conference participants."

This digitized exchange is made possible by a coder/decoder (CODEC). It takes an analog input (the picture and sound) and converts it to digital information for transmission. CODECs work just like a computer modem except in reverse.

There are two types of videoconferences – point-to-point and multipoint. A point-to-point conference is a single Video Teleconference Facility (VTF) connected to another VTF by a transmission path. A multipoint conference is a connection of three or more facilities. Multipoint conferences are a little more complex and require additional equipment. The additional equipment is called a Multipoint Control Unit or MCU. This MCU allows the signal from all of the conference participants to be combined.

Multipoint conferences allow all participants to see and hear the others. Defense Information Systems Network (DISN) Video Services offers three types of multipoint conferences:

- Telebroadcast Conference – a video and audio signal is sent from one VTF to two or more VTFs with no signal being sent in return. This is like watching a television broadcast.

- Teleseminar Conference – a video and audio signal is sent from one VTF to two or more VTFs and the audio-only signal is returned. This allows for fully interactive audio in the conference. This method has often been used for "distance learning" in that all can see the instructor and can hear each other's questions or comments.

- Interactive Conference – video and audio signals are sent and received by all participants in the conference. This type of DISN Video Services (DVS) Multipoint conference can incorporate one of three different types of switching. Switching refers to the way the "control" of the conference is handled. DVS offers four modes of control:
    1. Voice activated – there is no overall control of the conference and the monitors will change to show the person currently talking.
    2. Lecture – the Lecturer retains control of the conference. The Lecturer may allow others to brief but will never relinquish control of the videoconference.
    3. Chairperson Control – the current speaker is in control of the conference. When the current speaker has completed speaking they select the next person to speak and pass them control.
    4. Continuous Presence – this method is more commonly referred to as "Hollywood Squares" because the screen is divided to show several participants at once.

You might also want to view the following web site for a beginner's guide to video conferencing: http://www.videnet.gatech.edu/cookbook//.

B. Industry Standards for VTC

Industry Standards are developed to ensure that devices (including video) can "talk to each other." The International Telecommunications Union-Telecommunications (ITU-T) Standardization Sector is the worldwide body for setting industry standards for, among other things, Video Teleconferencing. In order to protect users and to ensure that all VTC equipment works together, the ITU-T developed the H.320 family of standards. The H.320 family covers many different aspects of Video Teleconferencing, from VTC over regular phone lines to VTC over Local Area Networks (LAN). The baseline standard for VTC is H.320.

The Department of Defense (DoD) recognizes Federal Telecommunications Recommendation (FTR) 1080A-1998 as the official standards-based reference document for VTC users and H.320 as the minimum acceptable standard. Conforming to these standards simply means that equipment purchased for use with the DVS Network will be able to communicate at a common level. You can download a copy of FTR 1080A-1998 from the Internet site: http://www.ncs.gov/n6/content/standard/html/ftr.htm.

Equipment used to connect to the DVS Network must, at a minimum, be capable of operating over one and two channels at quarter common intermediate format (QCIF) resolution, operate at variable rates from 56 to 1,544 kilobits per second (kbps), have a CODEC that is capable of coding at a minimum of 6 frames per second and decoding at a minimum of 7.5 frames per second. Algorithm support must be at a minimum compliant with standard H.261, and QCIF or Common Intermediate Format (CIF). QCIF and CIF define the video display with parameters such as number of lines and pixels.

The DVS network is covered by Appendix A of FTR 1080A-1998, titled "The Video Teleconferencing Profile." The Profile reiterates the minimum operating environment but allows for the use of advanced capabilities. You may add any of the advanced capabilities that you desire such as importing video clips, computer graphics, "whiteboard" applications, or document sharing/collaboration. Be aware that the other VTFs you are conducting a conference with may not support the advanced capabilities that you have. The DoD's Joint Technical Architecture (JTA), http://www-jta.itsi.disa.mil/, mandates implementation of ITU-T H.323 for new procurements and upgrades to existing systems where videoconferencing is done over LANs.

All you really need to know is that the equipment you purchased (regardless of advanced capabilities) is H.320 compliant and conforms to FTR 1080A-1998.

2. WHAT IS DVS?

A. General

DVS is the video transfer portion of the DISN. DVS is just one of the DISN activities that is consolidated under the Defense Information Systems Agency's (DISA) Network Services (NS). The DISN provides the long-range part of the Global Information Grid (GIG). The GIG is the web of communications capabilities that meets the information processing and transport needs of the DoD. DVS-Global (DVS-G) is the name of the Government contract for the hubs developed in support of the DoD's Global VTC vision.

DVS provides VTC services to the DoD and the Federal Government. These services can be either classified or unclassified, point-to-point or multipoint, switched (you dial into the hub) or dedicated (you have paid for a dedicated connection to the hub). Costs for Video services is made up of two components, Hub Services or usage (that is the switching, routing, and configuration of video conferences) and Transmission (the phone line or connection to the hub).

The cost of Hub Services for Dedicated subscribers is a flat rate, regardless of the number of conferences you conduct. A dedicated facility uses a T1 to connect to the nearest DVS hub. The other fee is the transport cost to the nearest hub. Transmission cost to the nearest hub consists of three parts: (1) transport from the VTF to the nearest Bandwidth Manager, (2) transport from the Bandwidth Manager to the Bandwidth Manager serving your hub, and (3) transport from the hub serving the Bandwidth Manager to the destination hub.

The cost for Dial-up subscribers is based on "per usage" (you only pay for what you use) plus transmission costs. The transmission cost varies depending on factors such as distance and type of network and is the responsibility of the subscriber. The rates for conducting video teleconferences are determined and distributed annually (see Section 2.C "Pricing" or http://disa.dtic.mil/disnvtc/cost.htm). Specific costs and figures included in this document pertain to subscribers within the Continental United States (CONUS). Service outside of the Continental United States (OCONUS) is provided on a flat rate basis, pre-paid by Major Commands, Services, and/or Agencies.

The DVS Network is composed of five regional hubs, each of which holds multiple units of KG-194 and KIV-7 communications security (COMSEC) equipment for encrypting classified conferences. Some of the characteristics of DVS are addressed below.

Regional Hubs

The network master hub is located in Dranesville, Virginia. Two additional CONUS hubs are located at Fort McPherson, Georgia and in San Diego, California. OCONUS hubs are located in the European and Pacific theaters. The European area hub is located at Patch Barracks in Vaihingen, Germany and the Pacific area hub is located at Pearl Harbor, Hawaii. All hub-to-hub video traffic will be transported on Government-provided T1 circuits. A T1 is a telephone line that can transmit 1.544 mbps (that's millions of bits of data per second) and is subdivided into 24 channels of 64kbps (that's thousands of bits of data per second). A standard modem on a personal computer works at 33.6kbps. A DVS videoconference will typically take from 2 (128 kbps) to 12 (768 kbps) of these 64kbps channels

Dedicated Subscriber

A dedicated subscriber is a VTF that uses a dedicated transmission path to interface with one of the five DVS hubs. Dedicated subscribers use hub resources for all conferences; i.e., point-to-point and multipoint conferences. The KG-194/KIV-19 COMSEC equipment is the cryptographic device used by dedicated subscribers to encrypt their classified conferences.

Switched (Dial-up) Subscribers

A dial-up subscriber is a VTF that dials into the network when they need a connection much the same way you would dial into your Internet provider when you desire a Web connection. Subscribers can use any of the dial-up transmission services available such as FTS-2001, DSN (Government networks), or commercial networks such as AT&T or MCI. (Note: DoD users must request transport service through DISA.) Users that are on the same network can conduct point-to-point videoconferences without going through one of the video hubs. However, users of different transmission networks may not be able to complete a dial-up point-to-point without using a DVS hub. The KIV-7 or KIV-19 COMSEC equipment is the cryptographic device most often used by dial-up subscribers to encrypt their classified conferences. Dial-up users may conduct VTC activity through any of the hubs.

Network Capabilities

Through Digital Cross Connect Switches (DCCS), transmission gateways, video bridges, and crypto devices, dedicated subscribers and dial-up subscribers are able to conduct point-to-point (one-to-one) or multipoint VTCs (multiple facilities) classified or unclassified. Reservation scheduling can be requested by voice, fax, e-mail, web, or data transfer (see page 8 for details).

B. Capabilities

Interoperable Bridging

The DVS-G contract provides DoD VTC users a bridging service using industry standard technology for interoperability and multipoint VTC requirements. This interoperability is what provides you with the flexibility to choose among various methods of connection or transmission paths, including dedicated circuits (T1), DoD government networks (DISN and FTS2001), commercial networks (Accunet, AT&T, MCI, Sprint, etc.), and tactical networks. DVS allows subscribers to access the Navy's tactical VTC to the Fleet (Video Information Exchange System (VIXS)) via DVS-G.

Secure Operation Support

In addition to connecting unclassified VTFs, DVS has the capability to support up to, and including, Top Secret (US and Allied) bridging requirements with the intent to provide VTC services to all US Forces deployed worldwide, in support of Joint and Combined operations. Customers needing this service should contact their Cryptographic Material Systems Custodian (CMSC) for assistance with security requirements and certification criteria for their facility. In order to operate classified VTCs on the DVS Network, specify the type(s) of service you need on your DVS Site Registration Form and submit a completed/signed Access Approval Document (AAD), a copy of your Authority to Operate (ATO) or Interim Authority to Operate (IATO), and a diagram of your equipment configuration. Annex F, from the DVS Key User's Manual, provides further guidance on the Connection Approval Process

(CAP). Annex F and the AAD form and instructions can be downloaded from our home page at http://disa.dtic.mil/disnvtc/, by following the "Becoming a Customer" link to Step #2 of "How Do I Become a Customer?"

C. Pricing

DVS Registration

There is no cost to register as a DVS user.

OCONUS Rates

Service outside of the Continental United States (OCONUS) is provided on a flat rate basis, pre-paid by Major Commands, Services, and/or Agencies.

CONUS Rates

For fiscal year 2003, the following rates for CONUS have been set:

Dial-up Customers. Usage of hub services is **90¢ per minute** per port (or site connection). Users are responsible for paying for the transport to the hub (i.e. per minute charge for FTS/DISN/Commercial-Switched Services).

Dedicated Customers. CONUS hubbing rates for dedicated facilities are a **monthly fixed rate**. Transport pricing will vary to the closest VTC hub. A calculated price will be charged each month. In addition, below are the flat rate charges per bandwidth requested.

	Number of Studios			
	1 VTC	2 VTC	3 VTC	4 VTC
384 kbps	$4,635			
768 kbps	$5,170	$5,840		
T1	$5,645	$6,515	$7,385	$8,255

3. GETTING CONNECTED

A. Subscribing to DVS

To access the DVS network you must become a subscriber, which is a two-step process.

Telecommunications Request (TR)

Step 1: Acquire a connection or transmission path. This requires that you complete and submit a Telecommunications Request (TR), formerly known as Request for Service (RFS). Procedures for completing and an example can be found in DISA Circular 310-130-1, http://www.disa.mil/pubs/circulars/circular.html. You may submit the TR on-line at DISADirect!: http://www.ditco.disa.mil/products/ASP/welcome.ASP. Select "Telecom Request" under the "Order Entry" item from the choices in the left-hand menu. You will be

prompted to log in, and then directed how to proceed. (Note: If you already have a transmission path. Depending on customer requirements, three separate TRs may be submitted; specifically:

Dedicated customer. The TR must reflect a requirement for a dedicated DISN T-1, from the DTS-C contract, as well as an Access 35 LIU and Router to be provided by AT&T under the DVS-G contract.

Dial-up customer (Transmission and Access). The TR must reflect the requirement for a DSN PRI, or BRIs from an ISDN capable base switch, to be terminated in a customer or vendor provided IMUX, as well as assignment of a DVS Site ID.

Access only. The TR must reflect the requirement for access only, noting the type of transport(s) that will be used as well as assignment of a Site ID.

A sample of all three TRs is attached at the end of this document.

Site Registration & Security Package (for Classified VTCs)

Step 2: Obtain access to the hub services provided by DVS. All prospective DVS customers must go on-line at http://disa.dtic.mil/disnvtc to the "Becoming A Customer" Section and complete and submit a Site Registration Form. Some advice, when completing the Registration Form—don't leave the Program Designator Code (PDC), which should be the same as line item 117 in the TR, blank. Forms without PDCs won't be processed. If you're stuck and can't complete the form, call one of the people listed below. They can provide tips and guidance on the information that's required, and will answer your questions about DVS.

Helen Elkin -- CONUS (Continental United States)
commercial 703-681-1376, DSN 312-761-1376

Mike Nichols -- Europe
commercial 011-49-711-68639-5840, DSN 314-434-5840

Marvin Nakagawa -- Pacific
commercial 808-656-3112, DSN 315-456-3112

If you wish to conduct classified VTCs, you'll need to submit a security package of the following items:

- AAD – Blank form and instructions can be downloaded from beneath Step 2 of "Becoming a Customer, http://disa.dtic.mil/disnvtc/become.htm. Complete it, have it signed by your DAA, and return it to the designated authority listed in the instructions. The AAD is kept on file at DISA VTC OPS and verifies that a Designated Approval Authority has accredited your site.
- ATO or IATO – Prepare and return either a signed an ATO or IATO memorandum.
- Room Diagram.

After receiving your TR, completed Site Registration Form, and the AAD packet of information, NS55 (the DISA Network Services office that handles daily operations of DVS) will assign a Site Identification Code (a.k.a. Site ID) for record and billing purposes. After

Site ID assignment, NS55 will direct the office that controls the Crypto keying material to send it to you (if AAD packet has been received), and notify the Defense Information Technology Contracting Office (DITCO) and AT&T that a new subscriber is ready for service.

Form 41

You will need to download, complete, and submit a DISA Form 41 for DVS System Access. Our version of DISA Form 41 has been edited to include only the necessary items and a customized set of instructions. Please be sure to read the instructions before you begin filling out the form. Both the form and the instructions are available at the DVS Web site, http://disa.dtic.mil/disnvtc/become.htm.

Certification

CONUS customers will be given instructions to call the Joint Interoperability Test Command (JITC) at 520-533-9332/9333 (DSN 821-9332/9333) or email JITCVTC@fhu.disa.mil to schedule a Certification Test. Provide your name, phone number and a good time for a return call. Someone from the JITC team will contact you at that time. This test must be completed before you can schedule your Validation call with the DVS-G service vendor, AT&T.

Validation

After you receive your Site ID, you will need to make a "test call" to one of the hubs for validation purposes. Contact AT&T at 1-800-367-8722, DSN (312) 533-3000, or (703) 430-5272, to schedule an appointment time for your Validation call. The Validation call will allow AT&T to build a "profile" of your facility by gathering technical information and ensuring your compatibility with the network.

B. Equipment Requirements & Vendors

As stated before, FTR 1080A-1998 (and H.320) is the standard that the DVS Network conforms to. Whatever equipment you purchase to access DVS, just ensure that it conforms to FTR 1080A-1998 (and H.320) standards.

If you're interested in upgrading and/or replacing your CODEC, DITCO offers CODEC upgrade package(s) under contracting activity DCA 200-97-D-0054/0028. Under that contract, DVS customers can replace Rembrandt II or Rembrandt II/VP CODECs for DISN dedicated/dialup VTFs. The contract also includes replacing one or more associated AMX touch Screen Panels and a Room Controller. Call Wes Miller at DSN 761-1346, Commercial (703) 681-1346 or email miller1g@ncr.disa.mil for more information.

Starting from scratch? DISA can provide information and expertise concerning your equipment, while not supporting any specific vendor or product. What you purchase depends on what type facility you are going to establish. Although not all of the following equipment may be needed to meet your requirements, these lists will give you an idea of possible equipment configurations for planning and budgeting purposes. There are basically three types of systems:

- Room, or studio-based, systems (for larger groups of ten or more people)
- Group systems (for small groups of two to ten people)

- Desktop systems (usually used for one-on-one video conferencing)

Room (Studio Based) System

Room-based systems are the least flexible to the user, while costing significantly more to install and operate. An average room system can cost from $100,000 to $1,000,000. This factor has played a large role in the current trend toward roll-about systems instead of room system installations. A typical set of Studio VTC Equipment will include:

- Sound Proof Room with Gallery Style Furniture
- CODEC
- CCD Pan-Tilt-Zoom Camera
- Touch Screen Room Controller
- Large Rear Project AV Monitors
- Audio Video Matrix Switcher
- Audio Amplifier and Speaker System
- Table Top Microphones
- Overhead Document Camera
- CCD Remote Pan-Tilt-Zoom Camera
- Scan Converter
- VCR
- Encryption equipment: KG-194/KIV-19
- Network interface equipment
- Inverse Multiplexer (IMUX) (for rates above 128kbps)
- Miscellaneous Cables, Interface adapters, Connectors, etc.

Group (Roll-About) System

The system is contained in a roll-about cart, which provides portability between conference rooms and offices. There has been tremendous growth in the utilization of VTC because of these integrated systems. There are few prerequisites for establishing a VTC site when employing a roll-about system. Cost will depend on “bells and whistles” included in your system. A typical Roll-About VTC system will include:

- Roll-about cart
- CODEC
- CCD Pan-Tilt-Zoom Camera
- Keypad Remote Controller
- Tabletop Microphones
- Flatbed Document Camera
- Single CCD Remote Pan-Tilt-Zoom Camera
- Scan Converter
- VCR
- Encryption Equipment: KIV-7 (recommended for dial up access), KG-194 (for dedicated systems), or KIV-19
- Network Interface equipment
- Inverse Multiplexer (IMUX) (for rates above 128kbps)
- Terminal Adapter
- Miscellaneous cables, adapters, and connectors

Desktop System

Even fewer prerequisites exist when using desktop systems. Fully functional systems, they offer a relatively cheap video teleconferencing capability. Ensure the desktop system you purchase conforms to H.320. A typical Desktop VTC system will include:

- Personal computer
- CODEC (built into PC interface card)
- Single CCD Camera (usually monitor mounted)
- Installed sound card, with microphone and speakers
- Terminal Adapter
- Network Interface Equipment

VTC Equipment Manufacturers

A reference list (not an endorsement) to VTC equipment manufacturers includes:

Accord - http://www.polycom.com
ADCOM - http://www.adcom.com
Aethra - http://www.aethra.net
Compunetix - http://www.compunetix.com/ix/index.html
Imagecom - http://www.imagecom.co.uk
Ivron - http://www.ivron.com
Lucent Technologies - http://www.lucent.com
PictureTel - http://www.polycom.com
Polycom - http://www.polycom.com
Sony - http://bpgprod.sel.sony.com
Tandberg - http://tandbergusa.com
VCON - http://vcon.com
Viseon - http://www.viseonvideo.com
VTEL - http://www.vtel.com
Zydacron - http://www.zydacron.com

4. OPERATING IN A DISN VIDEO SERVICES WORLD!

A. Reservation System

As stated earlier, DVS is an interconnected network of five hubs and a continuously growing number of dedicated and dial-up users. A key component of the DVS Network is the DVS reservation system.

A new, on-line DVS-Global Scheduler (DVS-GS) is expected to be available for users in June 2003. It will replace the antiquated DOS-based Video Teleconferencing Scheduling System (VTCSS) that many DVS customer still use.

Currently, a choice of methods can be used to submit your Conference Requests for processing. If you think you'd like to fax or e-mail your conference requests to the VOC, make sure you download a current copy of the DVS Conference Request Form. The form is available at http://disa.dtic.mil/disnvtc/. (Select "Current Customers" link; login with your assigned user name and password; see "DVS Program Area" and select "View Policy and Procedures Manuals.")

Video Operations Center (VOC)

Voice requests:	toll free 1-866-228-0085 (618) 229-9910 DSN (312) 779-9910
E-mail requests:	voc@scott.disa.mil
Fax requests:	(618) 229-8688 DSN (312) 779-8688

DVS Customer Support web site

On-line requests:	http://disa.dtic.mil/disnvtc/ (Select "Current Customers" link; login with assigned user name and password; then select "Send a DVS Conference Request")

Video Teleconference Scheduling System (VTCSS)

Modem requests:	Using required software, access with assigned user name and password. (NOTE: No longer available to new users. The VTCSS will be retired, when the online DVS-GS is activated in June 2003.)

Flag Level / VIP Conferences

To ensure that AT&T, the VOC, and NS55 are aware of high-profile conferences, always indicate on your DVS Conference Request Form when Flag level and/or VIP participation is expected. Also, including the name/rank of the participating Flag/VIP in the Customer Comment section of the form would be appreciated.

On-Demand Conference Requests

VTCs that are requested **within 2 hours** of start time are defined as "On-Demand" conference requests. On-Demand conference requests, including new conferences or changes to existing conferences, must be made directly to AT&T's Video Network Management Center (VNMC). AT&T will do everything they can to accommodate On-Demand requests, subject to the availability of time and system resources. After making arrangements with AT&T, follow-up by contacting the VOC via voice/phone/e-mail and let them known that you submitted an On-Demand request to AT&T.

AT&T's VNMC	1-800-367-8722 Hot Line 1-877-765-0328 DSN (312) 533-3000

Tactical Site Conference Requests

Tactical users have their own conference form, the DVS Tactical User Conference Request Form. This is the preferred form for tactical users who access the DVS network through a (STEP) site, since there is specific mission-related information required VTC configuration.

The form is available at http://disa.dtic.mil/disnvtc/. (Select "Current Customers" link; login with your assigned user name and password; see "DVS Program Area" and select "View Policy and Procedures Manuals.")

B. Video Operations Center

In October 2002, the Video Operations Center (VOC), located at DISA CONUS, was activated to support, among other things, a consolidated DVS reservation service. To eliminate conflicts, resulting in room denials, all reservation requests must be processed through the VOC, with the exception of "On-Demand" conference requests. The VOC manages the requests, consolidates them into a conflict-free Daily Schedule, and forwards the schedule to AT&T for network configuration and management.

The VOC also monitors all conference defects, failures, and circuit related problems reported by AT&T's VNMC via the Trouble Management System (TMS). The VOC reports all conference failures and/or Flag/VIP level defects as soon as possible to the RNOSC, GNOSC, and NS55.

The VOC provides 24 x 7 global support to the DVS customer and can be reached at:

Commercial, toll free: 1-866-228-0085
Commercial: (618) 229-9910
DSN: (312) 779-9910
Email: **VOC@scott.disa.mil**

C. More Information

For additional information please visit our web site homepage at http://disa.dtic.mil/disnvtc or contact DISN Video Services at:

Commercial: (703) 681-1376, -1346, -1368, -1366
DSN: (312) 761-1376, -1346, -1368, -1366

Email: **VTCOPS@ncr.disa.mil**

See the next page for a complete list of DVS contacts. The Account Management category specifies the representative responsible for customer support in your community.

CONTACTS AT DISN VIDEO SERVICES

NS55		
		Account Management Area:
Robert Clayton	Chief, NS55	
Robert Arevalo	COMSEC ARO & Key Management	TACT (703) 882-3248 DSN (312) 381-3248
Reg Barron	Program Management: Contracts/Admin.	
Helen Elkin	Customer Support	New Customers (703) 681-1376 DSN (312) 761-1376
Larry Freemon	Information Technology	
LTC Jacqueline James	Chief, DVS Operations	
Dee Jefferson	Management Analyst	
David Jenkins	Key Management	
Patrick Kremer	Operations	
Tom Lee	Customer	Army, Pacific, & CINCPAC (703) 681-1368 DSN (312) 761-13686
Wes Miller	Customer Support	Air Force, DISA, & Non-DoD CODEC Repalcement Program (703) 681-1346 DSN (312) 761-1346
Dick Mason	Information Technology & Management	
Patrick Pettit	Customer Support	Navy, Marines, Europe, & CINCEUR (703) 681-1366 DSN (312) 761-1366
Jack Rennolds	Customer Support	SOUTHCOM, SOCOM, & TRANSCOM (703) 882-0115 DSN (312) 381-0115
Carl Rhudy	Operations	
Bob Smith	Operations	
Jane Yates	Information Technology	

VOC		
VOC	Reservations, 24 x 7 Customer Support, & Form 41	toll free 1-866-228-0085 (618) 229-9910 DSN (312) 779-9910
		FAX (618) 229-8688 FAX DSN (312) 779-8688
Randy Prince	Chief, VOC	(618) 229-9910 DSN (312) 779-9910
Jim Mark	Customer Support	

JITC		
VTC Lab	Site Certification	(520) 533-9332/9333 DSN (312) 821-9332/9333

X1. EXAMPLE – DEDICATED CUSTOMER'S TR

(See **Notes**)

R 011200Z SEP 00 **(DAY/TIME GROUP)**
TO PROVHQS@NCR.DISA.MIL
FROM (RFS WRITER)
ZEN DPICNCRO@NCR.DISA.MIL
ZEN **CRCCO@CRCC.DISA.MIL** **(TR DISTRIBUTION)**
ZEN **(Insert your DVS Account Manager)**
ZEN FTP MCINEW
ZEN TCOSS@SCOTT.AF.MIL
BT
UNCLAS
SUBJ: REQUEST FOR SERVICE
A. TSRE(DATADCS, LEASED, INTRA CONUS, DISN, START)
101. VTC10FEB00004 **(RFS IDENTIFIER)**
103. START
104. CIRCUIT/EQUIPMENT
105. DEDICATED
106A. 081200Z MAY 00 **(OPERATIONAL DATE)**
106B. 081200Z MAY 00 **(REQUESTED VENDOR COMPLETION DATE)**
108. VX
109. 4G
110. FULL DUPLEX
111. 1.544MB
112. FULL PERIOD
115. NO SIGNALING
116. NEW LEASE
117. XXXXX **(PDC CODE TO BE USED)**
118. NO
119D. NO
120A. FTMONMTH **(GEOLOC)**
121A. 34 **(STATE CODE)**
122A. B **(AREA CODE)**
123A. VTF
124A. BUILDING 210 **(SITE ADDRESS)**
125A. ROOM 121 **(ROOM NUMBER)**
126A. ACCESS 35 Line Interface Unit/ROUTER VENDOR PROVIDED
127A. UNSECURE **(CRYPTO EQUIPMENT IF SECURE)**
128A. RJ48C CONNECTOR
LINE INTERFACE: B8ZS/ESF CLEAR CHANNEL
129A. 4W
130A. PRI: STEVE JAKUBOWSKI (D)992-9210, (C)732-532-9210 **(PRI CONTACT INFO)**
EMAIL: JAKUBOSC@MAIL1.MONMOUTH.ARMY.MIL
ALT: **(ALT CONTACT INFO)**
EMAIL:
131A. DIRECTOR SPACE AND TERRESTRIAL COMMUNICATIONS **(MAILING ADDRESS)**
DIRECTORATE, FT MONMOUTH, NJ 07703-5613
139A. 732/532 **(COMMERCIAL NPA/NXX)**
401. START A 1.544MB VIDEO CIRCUIT TO SUPPORT DEDICATED SERVICE UNDER THE DISN VIDEO SERVICES - GLOBAL (DVS-G) CONTRACT. REQUEST VENDOR PROVIDE LIU (ACCESS 35) AND ROUTER TO SUPPORT (ONE, TWO, THREE, OR FOUR) ROOMS OFF THE ACCESS 35. ADDITIONALLY, REQUEST SITE IDENTIFICATION ASSIGNMENT FOR DESIGNATED ROOMS. **(PURPOSE OF TR)**

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402. TOM LEE, (DISA/NS55), 703-681-1368, D 761-1368                    (TR POC)
E-MAIL: LEET@NCR.DISA.MIL
405. Y3
410A. SDP: BLDG 210, LAB C                                             (DEMARC)
417. RFS POC:                                          (RFS POC AND REMARKS)
429. A. TEST REQUIREMENTS: CIRCUIT SHALL COMPLY WITH ANSI T1.102-1993.
THE CIRCUIT SHALL BE 96.5% ERROR FREE.  B. AVAILABILITY: 99.5%
C. LOSS OF BIT COUNT INTERGRITY (LBCI): 4/24 BIT ERROR RATE (BER) OF 1 X
10-7 FOR 72 HOURS UTILIZING STATION CLOCK AS SOURCE.
430. 60 MONTHS
431. D
437A. CPIWI-YES/CPIWM-YES
437B. CPIWI-YES/CPIWM-YES
438A. NONE
438B. NONE
440A. WILL NOT LEAK - CAT 6
440B. WILL NOT LEAK - CAT 6
444. INTERSTATE USE, 100 PERCENT
514. VTC10FEB00004                                      (SAME AS LINE 101)
BT
```

Notes:

1. Items in **BOLD** need to be specific to your site. Other items are "boiler plate" and apply to all sites.

2. There should be no space in the beginning and end of each line.

3. For help with the preparation and submission of your TR, see DISA Circular 310-130-1, http://www.disa.mil/pubs/circulars/circular.html.

4. Submit directly to DISA, online at DisaDirect!, http://www.ditco.disa.mil/products.
   Select "Order Entry—Telecom Request."
   Please cc: a) vtcops@ncr.disa.mil
   b) DVS Account Manager (see page 9 for assignment areas):
   Tom Lee, LeeT@ncr.disa.mil, (703)681-1368 DSN (312)761-1368
   Wes Miller, Miller1G@ncr.disa.mil, (703)681-1346 DSN (312)761-1346
   Patrick Pettit, PettitP@ncr.disa.mil, (703)681-1366 DSN (312)761-1366
   Jack Rennolds, RennoldJ@ncr.disa.mil, (703)882-0115 DSN (312)381-0115

X2. EXAMPLE – DIAL-UP CUSTOMER'S TR (for Transmission and Access)

(See **Notes**)

R 011200Z SEP 00 **(DAY/TIME GROUP)**
TO PROVHQS@NCR.DISA.MIL
FROM (RFS WRITER)
ZEN DPICNCRO@NCR.DISA.MIL
ZEN **CRCCO@CRCC.DISA.MIL** **(TR DISTRIBUTION)**
ZEN **(Insert your DVS Account Manager)**
ZEN FTP MCINEW
ZEN TCOSS@SCOTT.AF.MIL
BT
UNCLAS
SUBJ: REQUEST FOR SERVICE
A. TSRE(DATADCS, LEASED, INTRA CONUS, DISN, START)
101. VTC10FEB00004 **(RFS IDENTIFIER)**
103. START
104. CIRCUIT ONLY/SINGLE VENDOR
105. DEDICATED
106A. 081200Z MAY 00 **(REQUESTED OPERATIONAL DATE)**
106B. 081200Z MAY 00 **(REQUESTED VENDOR COMPLETION DATE)**
108. VX
109. 4G
110. FULL DUPLEX
111. 1.544MB
112. FULL PERIOD
115. NO SIGNALING
116. NEW LEASE
117. XXXXX **(CUSTOMER PDC CODE TO BE USED)**
118. NO
119D. NO
120A. FTMONMTH **(GEOLOC)**
121A. 34 **(STATE CODE)**
122A. B **(AREA CODE)**
123A. VTF
124A. BUILDING 210 **(SITE ADDRESS)**
125A. ROOM 120 **(ROOM NUMBER)**
126A. MADGE 60 INVERSE MULTIPLEXER (GFE) **(IMUX TYPE)**
127A. UNSECURE **(CRYPTO EQUIPMENT IF SECURE)**
128A. DS-1 INTERFACE, RJ-48, PRI, B8ZS/ESF
129A. 4W
130A. PRI: STEVE JAKUBOWSKI (D)992-9210, (C)732-532-9210 **(PRI CONTACT INFO)**
EMAIL: JAKUBOSC@MAIL1.MONMOUTH.ARMY.MIL
ALT: **(ALT CONTACT INFO)**
EMAIL:
131A. DIRECTOR SPACE AND TERRESTRIAL COMMUNICATIONS **(MAILING ADDRESS)**
DIRECTORATE, FT MONMOUTH, NJ 07703-5613
139A. 732/532 **(COMMERCIAL NPA/NXX)**

```
401. START A 1.544 MB NON-CHANNELIZED DSN ACCESS PRI T-1 (23+D) TRUNK.
ADDITIONALLY, REQUEST SIGHT IDENTIFICATION ASSIGNMENT.      (PURPOSE OF TR)
402. TOM LEE, (DISA/NS55), 703-681-1368, D 761-1368                (TR POC)
E-MAIL: LEET@NCR.DISA.MIL
405. Y3
410A. SDP: BLDG 210, ROOM 121                                      (DEMARC)
417. RFS POC:                                          (RFS POC AND REMARKS)
429. A. TEST REQUIREMENTS: CIRCUIT SHALL COMPLY WITH ANSI T1.102-1993.
THE CIRCUIT SHALL BE 96.5% ERROR FREE.  B. AVAILABILITY: 99.5%
C. LOSS OF BIT COUNT INTEGRITY (LBCI): 4/24 BIT ERROR RATE (BER) OF 1 X 10-
7 FOR 72 HOURS UTILIZING STATION CLOCK AS SOURCE.
430. 60 MONTHS
431. D
437A. CPIWI-YES/CPIWM-YES
437B. CPIWI-YES/CPIWM-YES
438A. NONE
438B. NONE
440A. WILL NOT LEAK - CAT 6
440B. WILL NOT LEAK - CAT 6
444. INTERSTATE USE, 100 PERCENT
514. VTC10FEB00004                                    (SAME AS LINE 101)
BT
```

Notes:

1. Items in **BOLD** need to be specific to your site. Other items are "boiler plate" and apply to all sites.

2. There should be no space in the beginning and end of each line.

3. For help with the preparation and submission of your TR, see DISA Circular 310-130-1, http://www.disa.mil/pubs/circulars/circular.html.

4. Submit directly to DISA, online at DisaDirect!, http://www.ditco.disa.mil/products.
   Select "Order Entry—Telecom Request."
   Please cc: a) vtcops@ncr.disa.mil
   b) DVS Account Manager (see page 9 for assignment areas):
   Tom Lee, LeeT@ncr.disa.mil, (703)681-1368 DSN (312)761-1368
   Wes Miller, Miller1G@ncr.disa.mil, (703)681-1346 DSN (312)761-1346
   Patrick Pettit, PettitP@ncr.disa.mil, (703)681-1366 DSN (312)761-1366
   Jack Rennolds, RennoldJ@ncr.disa.mil, (703)882-0115 DSN (312)381-0115

X3. EXAMPLE – DIAL-UP CUSTOMER'S TR (for Access Only)

(See **Notes**)

```
R 011200Z SEP 00                                                (DAY/TIME GROUP)
TO PROVHQS@NCR.DISA.MIL
FROM (RFS WRITER)
ZEN DPICNCRO@NCR.DISA.MIL
ZEN CRCCO@CRCC.DISA.MIL                                         (TR DISTRIBUTION)
ZEN (Insert your DVS Account Manager)
ZEN FTP MCINEW
ZEN TCOSS@SCOTT.AF.MIL
BT
UNCLAS
SUBJ: REQUEST FOR SERVICE
A. TSRE(DVS-G ACCESS)
101. VTC10FEB00004                                              (RFS IDENTIFIER)
103. START
104. CIRCUIT/EQUIPMENT
105. DEDICATED
106A. 081200Z MAY 00                                 (REQUESTED OPERATIONAL DATE)
106B. 081200Z MAY 00                              (REQUESTED VENDOR COMPLETION DATE)
117. XXXXX                                           (CUSTOMER PDC CODE TO BE USED)
118. NO
119D. NO
120A. FTMONMTH                                                          (GEOLOC)
121A. 34                                                          (STATE CODE)
122A. B                                                           (AREA CODE)
123A. VTF
124A. BUILDING 210                                                (SITE ADDRESS)
125A. ROOM 120                                                    (ROOM NUMBER)
130A. PRI: STEVE JAKUBOWSKI (D)992-9210, (C)732-532-9210        (PRI CONTACT INFO)
EMAIL: JAKUBOSC@MAIL1.MONMOUTH.ARMY.MIL
ALT:                                                            (ALT CONTACT INFO)
EMAIL:
131A. DIRECTOR SPACE AND TERRESTRIAL COMMUNICATIONS             (MAILING ADDRESS)
DIRECTORATE, FT MONMOUTH, NJ 07703-5613
401. TO OBTAIN DIAL UP SERVICE OFF THE DVS-G CONTRACT USING EXISTING
(DSN/FTS-2001/COMMERCIAL) TRANSPORT. REQUEST DVS SITE IDENTIFICATION
ASSIGNMENT.                                                     (PURPOSE OF TR)
402. TOM LEE, (DISA/NS55), 703-681-1368, D 761-1368                   (TR POC)
E-MAIL: LEET@NCR.DISA.MIL
514. VTC10FEB00004                                          (SAME AS LINE 101)
BT
```

Notes:

1. Items in **BOLD** need to be specific to your site. Other items are "boiler plate" and apply to all sites.

2. There should be no space in the beginning and end of each line.

3. For help with the preparation and submission of your TR, see DISA Circular 310-130-1, http://www.disa.mil/pubs/circulars/circular.html.

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   Patrick Pettit, PettitP@ncr.disa.mil, (703)681-1366 DSN (312)761-1366
   Jack Rennolds, RennoldJ@ncr.disa.mil, (703)882-0115 DSN (312)381-0115